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Subject: Update - 18 Feb 2019 - Lindsey Lake Tanker Spill (I-84, MP 54; OERS 2019-0334)

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Hello all:

An update on the Lindsey Lake tanker spill (I- 84, MP 54):

Today's operations:

\* Cooperative weather and hard work from our responders allowed us to continue flushing and recovery operations on the north side of the highway today, where we recovered an estimated 10 gallons of spilled diesel fuel using sorbents. Hand crews also completed an interceptor trench just above the shoreline of Lindsey Lake. The trench has been lined with sorbent material, which will be changed as necessary to absorb oily water flowing down the embankment from our flushing operation. An archaeological monitor was on site to observe the digging activity. We have now flushed approx. 20% of the most heavily impacted area on the north side of the roadway.

\* Crews on the water are using an additional small boat, delivered today, to swap out soft boom as necessary and maintain the hard boom on Lindsey Lake and on the Columbia River. Officers from the Columbia River Inter-Tribal Fish Commission provided some training to our crews on procedures for inadvertent discovery of archaeological resources.

\* Finally, we expanded our cleanup operation to include a third work area on the south side of the highway. Diesel fuel and oily water were observed flowing from the melting snow bank and onto the road shoulder and one of the eastbound I-84 travel lanes. This lane has now been closed until we complete cleanup operations, leaving just one travel lane in each direction during daylight hours. 60 gallons of diesel fuel were recovered from this zone using sorbent material and a vacuum truck. An additional 10 gallons of fuel (contained in 40 cubic yards of contaminated snow) was also hauled off site. The Oregon Parks and Recreation Department has closed a trailhead and some hiking trails near the site due to the potential human health impact.

\* We have recovered an estimated 230 gallons of spilled fuel to date, using a variety of tactics. Our crews are now working in respirators due to the hazard posed by volatile compounds in the diesel fuel.

\* Shoreline Cleanup and Assessment activities continue by kayak and we have now implemented a formal SCAT plan. We are seeing dissolved phase contamination for several petroleum constituents below screening values designed to evaluate risk to aquatic life. With advice from our U.S. Fish & Wildlife Service observer, we will be installing an underwater bubbler screen along the impacted area to mitigate dissolved phase transport into Lindsey Lake. DEQ's toxicologist will be evaluating environmental data for risk to aquatic life.

Outlook for tomorrow:

\* Tomorrow will be the most complex day of operations to date. We will have crews continuing flushing and recovery work on the north side of the highway, where we will employ a hydronic surface heater to accelerate snow melt and fuel recovery.

\* On the south side of the highway, we will be removing large quantities of diesel-laden snow and trucking it off site to a treatment facility in Wilsonville. Crews will be simultaneously collecting liquid diesel fuel and oily water using a vacuum truck and sorbents.

\* On the water, crews will continue boom maintenance and assist the land-based crews in recovering any fuel traveling down slope to the lake. Additional sorbent boom will be deployed on the east side of

Lindsey Creek.

Environmental monitoring and assessment activities:

\* We are now receiving regular updates with environmental sample data. These data will allow us to complete a site environmental data picture for surface water, subsurface water column, soil and sediment.

\* We have completed an initial estimate of volume of diesel contained in impacted snow along the roadway. This estimate will inform recovery rates and total volume of diesel recovered.

\* Looking forward, we are evaluating a plan to conduct drilling and diesel fuel recovery in subsurface soil below the embankment to mitigate future potential for sheening into Lindsey Lake.

Very respectfully,

Jamie

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